

AMENDMENTS TO THE CLAIMS

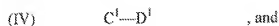
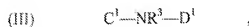
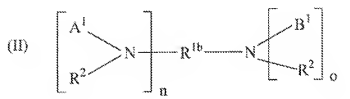
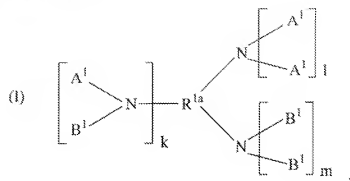
1. (Original) A modified hydrogenated copolymer comprising:

a hydrogenated copolymer obtained by hydrogenating an unhydrogenated copolymer comprising conjugated diene monomer units and vinyl aromatic monomer units, said unhydrogenated copolymer having at least one polymer block (H) of said vinyl aromatic monomer units, and

a functional group-containing modifier group bonded to said hydrogenated copolymer, said modified hydrogenated copolymer having the following characteristics (1) to (4):

- (1) a content of said vinyl aromatic monomer units of from more than 60 % by weight to less than 90 % by weight, based on the weight of said hydrogenated copolymer,
- (2) a content of said polymer block (H) of from 0.1 to 40 % by weight, based on the weight of said unhydrogenated copolymer,
- (3) a weight average molecular weight of from more than 100,000 to 1,000,000, and
- (4) a hydrogenation ratio of 70 % or more, as measured with respect to the double bonds in said conjugated diene monomer units.

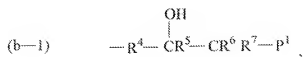
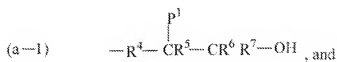
2. (Original) The modified hydrogenated copolymer according to claim 1, which is represented by a formula selected from the group consisting of the following formulae (I) to (V):



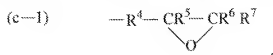
wherein:

A^1 represents a unit which is represented by any one of the following formulae (a-1) and

(b-1):

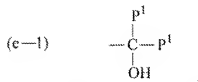


B¹ represents a unit which is represented by the following formula (c-1):

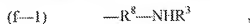


C¹ represents a unit which is represented by any one of the following formulae (d-1) and

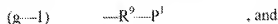
(e-1):



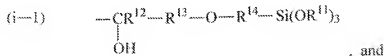
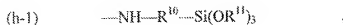
D¹ represents a unit which is represented by the following formula (f-1):

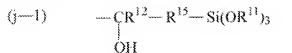


E¹ represents a unit which is represented by the following formula (g-1):



F¹ represents a unit which is represented by any one of the following formulae (h-1) to (j-1):





wherein, in the formulae (I) to (III) and (a-1) to (j-1):

N represents a nitrogen atom, Si represents a silicon atom, O represents an oxygen atom, C represents a carbon atom, and H represents a hydrogen atom,

p¹ represents said hydrogenated copolymer,

each of R^{1a}, R^{1b}, R³, R⁴, R⁸ to R¹⁰ and R¹³ to R¹⁵ independently represents a C₁-C₄₈ hydrocarbon group and optionally independently has at least one functional group selected from the group consisting of a hydroxyl group, an epoxy group, an amino group, a silanol group and a C₁-C₂₄ alkoxysilane group,

each of R² and R¹¹ independently represents a C₁-C₄₈ hydrocarbon group,

each of R⁵ to R⁷ and R¹² independently represents a hydrogen atom or a C₁-C₄₈ hydrocarbon group,

wherein each of R^{1a}, R^{1b}, R² to R⁴ and R⁸ to R¹⁵ optionally independently has bonded thereto at least one atom selected from the group consisting of an oxygen atom, a nitrogen atom, a sulfur atom and a silicon atom, said at least one atom being present in a linkage other than a

hydroxyl group, an epoxy group, an amino group, a silanol group and an alkoxy silane group, and

each of k, l, m and o is independently an integer of 0 or more, provided that both k and l are not simultaneously 0, and n is an integer of 1 or more.

3. (Original) The modified hydrogenated copolymer according to claim 1, which exhibits substantially no crystallization peak observed at -50 to 100 °C in a differential scanning calorimetry (DSC) chart obtained with respect to said modified hydrogenated copolymer.

4. (Original) The modified hydrogenated copolymer according to claim 1, which has a molecular weight distribution of from 1.5 to 5.0.

5. (Original) The modified hydrogenated copolymer according to claim 2, which is represented by the formula (I).

6. (Original) The modified hydrogenated copolymer according to claim 2, which is represented by the formula (II).

7. (Original) The modified hydrogenated copolymer according to claim 2, which is represented by the formula (III).

8. (Original) The modified hydrogenated copolymer according to claim 2, which is represented by the formula (IV).

9. (Original) The modified hydrogenated copolymer according to claim 2, which is represented by the formula (V).

10. (Original) The modified hydrogenated copolymer according to any one of claims 1 to 4, which is a foam.

11. (Original) The modified hydrogenated copolymer according to any one of claims 1 to 4, which is a shaped article.

12. (Currently Amended) The modified hydrogenated copolymer according to claim 11, which is a single-layer film, a single-layer sheet, a multilayer film having at least one layer of said modified hydrogenated copolymer, or a multilayer sheet having at least one layer of said modified hydrogenated copolymer.

13. (Currently Amended) The modified hydrogenated copolymer according to claim 11, which is a shaped article produced by a method selected from the group consisting of an extrusion molding, an injection molding, a blow molding, an air-pressure molding, a vacuum molding, a foam molding, a multilayer extrusion molding effected for forming a shaped article having at least one layer of said modified hydrogenated copolymer, a multilayer injection

molding effected for forming a shaped article having at least one layer of said modified hydrogenated copolymer, a high frequency weld molding, a slush molding and a calender molding.

14. (Original) The modified hydrogenated copolymer according to any one of claims 1 to 4, which is a building material, a vibration damping, soundproofing material or an electric wire coating material.

15. (Withdrawn) A crosslinked, modified hydrogenated copolymer obtained by subjecting the modified hydrogenated copolymer of any one of claims 1 to 4 to a crosslinking reaction in the presence of a vulcanizing agent.

16. (Original) A modified hydrogenated copolymer composition comprising:
1 to 99 parts by weight, relative to 100 parts by weight of the total of components (a) and (b), of (a) the modified hydrogenated copolymer of any one of claims 1 to 4, and
99 to 1 part by weight, relative to 100 parts by weight of the total of components (a) and (b), of (b) at least one polymer selected from the group consisting of a thermoplastic resin other than said modified hydrogenated copolymer (a) and a rubbery polymer other than said modified hydrogenated copolymer (a).

17. (Original) The modified hydrogenated copolymer composition according to claim 16, which is a foam.

18. (Original) The modified hydrogenated copolymer composition according to claim 16, which is a shaped article.

19. (Currently Amended) The modified hydrogenated copolymer composition according to claim 18, which is a single-layer film, a single-layer sheet, a multilayer film having at least one layer of said modified hydrogenated copolymer composition, or a multilayer sheet having at least one layer of said modified hydrogenated copolymer composition.

20. (Currently Amended) The modified hydrogenated copolymer composition according to claim 18, which is a shaped article produced by a method selected from the group consisting of an extrusion molding, an injection molding, a blow molding, an air-pressure molding, a vacuum molding, a foam molding, a multilayer extrusion molding effected for forming a shaped article having at least one layer of said modified hydrogenated copolymer composition, a multilayer injection molding effected for forming a shaped article having at least one layer of said modified hydrogenated copolymer composition, a high frequency weld molding, a slush molding and a calender molding.

21. (Original) The modified hydrogenated copolymer composition according to claim 16, which is a building material, a vibration damping, soundproofing material or an electric wire coating material.

22. (Withdrawn) A crosslinked, modified hydrogenated copolymer composition obtained by subjecting the modified hydrogenated copolymer composition of claim 16 to a crosslinking reaction in the presence of a vulcanizing agent.